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S29	41	S28 with albumin	US-PGPUB; USPAT	ADJ	ON	2005/07/01 16:37
S30	6	S29 with fusion	US-PGPUB; USPAT	ADJ	ON	2005/07/01 16:37

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1 FILE BIOSIS
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Rosen, Craig A., Laytonsville, MD, UNITED STATES
HaseLine, William A., Washington, DC, UNITED STATES
US 2005054570
A1 20064010
US 2004-775180
A1 20040211 (10)
Continuation of Ser. No. WO 2002-US40892, filed on 23 Dec 2002, PENDING
US 2001-341811P
2001221 (60)
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ANSWER 2 OF 48 USPATFULL

USPATFUL

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20040120 142:141240 Albumin fusion proteins for stabilization of therapeutic proteins in DATE In a multifile environment, each file must have at least one valid format requested. Refer to file specific help messages or the STNGVIDE file for information on formats available in individual ANSWER 1 OF 48 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 1 REENTER DISPLAY FORMAT FOR ALL FILES (FILEDEFAULT):filedefault APPLICATION NO. WO 2004-US1369 ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE PROCESSING COMPLETED FOR L2 (3 DUPLICATES REMOVED) Haseltine, William A.; Rosen, Craig A. Human Genome Sciences, Inc., USA PCT Int. Appl., 884 pp. => d 13 trial 1-5 NO VALID FORMATS ENTERED FOR FILE 'CAPLUS' 20050113 20050421 20030311 なままり 20030606 20030930 AU, AT, KIND ₹à Z Z ER, KR, 2005:34855 CAPLUS PRAI US 2003-441305P US 2003-45221P US 2003-47222P US 2003-472816P US 2003-47867P US 2003-505172P US 2003-50674 AE, AG, QN, CO, GE, GH, 7 2 E 유정 WO 2005003296 WO 2005003296 3 8 E PATENT NO. RW: English Patent DT Paten LA Englia files. NI PA SARE PI

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ANSWER 3 OF 48 PROMT COPYRIGHT 2005 Gale Group on STN ជ

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ALBUGON Human Genome Sciences licensing agreement GlaxoSmithKline licensing agreement Human Genome Sciences preclinical data.(Brief Article)
R & D Focus Drug Nay, (22 Nov 2004) .
ISSN: ISSN: 1350-1135.
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Pharma Marketletter, (1 Nov 2004)
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英色电光 English PROMT FR, PRAI US 2003-441305P US 2003-45201P US 2003-47222P US 2003-472816P US 2003-476867P US 2003-505172P US 2003-50674 ЖĞ, ANSWER 2 OF 42 42 L5 ANSWER 4 OF 42 BF, ACCESSION NUMBER: ACCESSION NUMBER: ACCESSION NUMBER: ANSWER 3 OF ES, DOCUMENT TYPE: LANGUAGE: WORD COUNT: DOCUMENT TYPE: RW: LANGUAGE: WORD COUNT: WORD COUNT: PUBLISHER: PUBLISHER: SOURCE: SOURCE: SOURCE: អ 3 ¥ £ 8 8 3 5 8 8 8 8 8 8 8 8 20040120 Albumin fusion proteins for stabilization of therapeutic proteins in 8 8 B FILE 'PHARMAML' ENTERED AT 16:56:10 ON 01 JUL 2005 Copyright 2005 (c) MARKETLETTER Publications Ltd. All rights reserved. -> dup rem 14 DUPLICATE IS NOT AVAILABLE IN 'DGENE, ADISINSIGHT, IMSRESEARCH, PHAR, In a multifile environment, each file must have at least one valid format requested. Refer to file specific help messages or the STNGUIDE file for information on formats available in individual X 8 8 REENTER DISPLAY FORMAT FOR ALL FILES (FILEDEFAULT): filedefault BW, KG, KG, VN, WO 2004-US1369 APPLICATION NO. ANSWER 1 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN 2005:34855 CAPLUS 2002 2002 PHARMAML.

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I was albumin fusion protein, useful for preparing a composition for treating diabetes mellitus.

Rosen C A; Haseltine W A (HUMA-N) HUMAN GENOME SCI INC.

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20011221 20020124 2002026 2002028 20020327 20020408 20020724 20020918 20020918 20021002	Z00Z1105 ** / ***GLP*** - ***1*** (7-36(A8G)) protein, SEQ ID NO:614.	DGENE COPYRIGHT 2005 The Thomson Corp on STN In protein, useful for preparing a composition for tine W A 1 comvosition for prelitus. The state of t	46P 20021023 (23P 20021105 156] 1bumin*** / ***GLP*** - ***1*** (7-36(ABG)) ** protein, SEQ 1D NO:612. 42 DGENE COPYRIGHT 2005 The Thomson Corp on STN octain fusion protein, useful for preparing a composition for lasel tine W A HUMAN GENOME SCI INC. 4 A2 20030724 999
	US 2002-423623P Patent English 2003-598501 [56] Human ***albumin*** ***fusion*** prot.	WHER 17 OF 42 H21815 protein A albumin fusic sating disbelts sating disbelts san C A; Hasalt NAA-N) 2003059934 A 2002-US40892 2001-341811P 2002-3503589 2002-3503589 2002-350300P 2002-376950P 2002-418155P 2002-413155P 2002-413155P 2002-413155P 2002-413161P	US 2002-420246P 200210 US 2002-423623P 2002110 Patent English Human ***albumin*** / * ***fusion*** protein, S ANSWER 18 OF 42 DGENE COP ADH21623 protein DGE New albumin fusion protein, treating diabetes mellitus. Rosen C A; Haseltine W A (HUMA-N) HUMAN GENOME SC WO 2003059934 A2 20030724
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DESC Human ****albumin*** / ****GLP*** - ***1*** (7-36(A8G)) ****fusion*** protein, SEQ ID NO:613.	ANSWER 24 OF 42 DGENE COPYRIGHT 2005 The Thomson Corp on STN ADH21622 protein DGENE DGENE New albumin fusion protein, useful for preparing a composition for treating diabetes mellitus.
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Rosen C A; Haseltine W A
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I New albumin fusion protein, useful for preparing a composition for treating diabetes mellitus.

N Rosen C A; Haseltine W A (HUWA-N) HURAN GENOME SCI INC.

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2003-598501 [56]

Human ***albumin*** / ***GLP*** - ***1*** (7-36(ABG))

***fusion*** protein, SEQ ID NO:425.
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Human ***albumin*** / ***GLP*** - ***1*** (7-36(ABG))
***fusion*** protein, SEQ ID NO:611.
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New albumin fusion protein, treating diabetes mellitus.	Rosen C A; Haseltine W A	ENOME	2002-US40892	2001-341811P	2002-350358P	2002-359370P	2002-360000P	2002-367500P	2002-370227P	2002-378950P	2002-398008P	2002-402131P	2002-402708P	US Z00Z-411355P Z00Z0918	4 4 5 6 4 T 4 7 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6		US 2002-420246F 20021023	ent	English	2003-598501 [56]	/ ***uiu	fusion*** protein,	ANSWER 29 OF 42 DESENT	in	process:	treating diabetes mellitus.	Rosen C A; Haseltine W A		WO 2003059934 AZ 20030724	35	2001-341811P	2002-350358P	US 2002-3393/UF 20020228	2002-367500P	2002-3072 2002-370227p	2002-378950P	2002-39800BP	2002-402131P	US 2002-402708P 20020813	2002-411355P	2002-414984P			US 2002-423623P 20021	Patent	English	598501 [56] ****1":":-*** /	Human ""albumin"" /	
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New albumin fusion protein, useful for preparing a composition for
treating diabetes mellitus.
Rosen C A; Haselitie W A
(HUMA-N) HUMAN GENOME SCI INC.
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20021223 20011221 20020124 20020226 20020237 20020408 20020408 20020408 20020408 20020408

(HUMA-N) HUMAN WO 20035934 AN WO 20035934 AN WO 2002-054092 US 2002-350318P US 2002-350310P US 2002-375750P US 2002-375750P US 2002-375750P US 2002-37950P US 2002-37950P US 2002-40211P US 2002-40211P US 2002-414984P US 2002-414984P US 2002-414984P US 2002-414984P US 2002-414984P US 2002-414984P US 2002-414984P US 2002-414984P US 2002-414984P US 2002-414984P US 2002-414984P US 2002-414984P US 2002-414984P US 2002-414984P

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Dayles.
2003-598501 [56]
Human ***albumin*** / ***GLP*** - ***1*** (7-36(ABG))*2
***fusion*** protein, SEQ ID NO:447.
               ***1*** (7-36)
             Human ***albumin*** / ***GLP***
protein, SEQ ID NO:129.
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L5 ANSWER 32 OF 42 DGENE COPYRIGHT 2005 The Thomson Corp on STN AN ADH21626 protein DGENE TI New albumin fusion protein, useful for preparing a composition for traching diabetes mellitus. IN Rosen C A; Haseltine W A PA (HUMA-N) HUMAN GENOME SCI INC. PI WO 200305934 A2 20030724 A1 WO 2003-US40892 20031223	AI US 2001-3418119 US 2002-350358P US 2002-350358P US 2002-360000P US 2002-370227P US 2002-378550P US 2002-378550P US 2002-402131P US 2002-411555P US 2002-411555P US 2002-417611P US 2002-423623P] min*** prot	AN ADH21624 protein AN ADH21624 protein TI New albumin fusion protein, useful for preparing a composition for treating diabetes mellitus. IN New albumin fusion protein, useful for preparing a composition for treating diabetes mellitus. IN Rosen C A; Haseltine W A PA (HUMA-N) HUMAN GENOME SCI INC. PI WO 2003-05934 A2 20031221 AI WO 2002-US40692 20021223 AI WO 2002-US40692 20020124 US 2002-350358P 20020124 US 2002-350358P 20020124 US 2002-357500P 20020226 US 2002-357500P 20020226 US 2002-377500P 2002020989 US 2002-3779550P 20020101 US 2002-40211P 20020809 US 2002-40211P 20020813 US 2002-41934P 20021012 US 2002-41356P 20020101 US 2002-41494P 20021011 US 2002-41451PP 20021021	2002-423623P eent jlish 33-598501 [56] man ***albumin***

AAE30918 Protein DGENE
Novel heterologous fusion protein, useful for treating non-insulin
dependent diabetes mellitus or obesity, comprises a glucagon-like peptide
1 compound fused to human albumin or to the Fc portion of an Novel heterologous fusion protein, useful for treating non-insulin dependent diabetes mellitus or obesity, comprises a glucagon-like peptide 1 compound fused to human albumin or to the Fc portion of an Novel heterologous fusion protein, useful for treating non-insulin dependent diabetes mellitus or obesity, comprises a glucagon-like peptide 1 compound fused to human albumin or to the Fc portion of an (HSA) 1.5 ANSWER 39 OF 42 ADISINSIGHT COPYRIGHT (C) 2005 Adis Data Information BV ***albumin*** DGENE COPYRIGHT 2005 The Thomson Corp on STN DGENE COPYRIGHT 2005 The Thomson Corp on STN DGENE COPYRIGHT 2005 The Thomson Corp on STN English 2003-018534 [01] Gly8-Glu22- ***GLP*** - ***1*** -CEx-linker-human serum ***albumin*** 2003-018534 [01] Val8- ***GLP*** - ***1*** -linker-human serum protein. 200 200 200 - +++1*++ -human serum protein, SEQ ID NO:598. ***fusion*** 2002:577 ADISINSIGHT Adis R&D Insight Glaesner W; Micanovic R; Tschang S R (ELIL) LILLY & CO ELI. WO 2002046227 A2 20020613 Glaesner W; Micanovic R; Tschang S R (ELIL) LILLY & CO ELL. WO 2002046227 A2 20020613 Glaesner W; Micanovic R; Tschang S R 20011129 20011129 20011129 20001207 DGENE LILLY & CO ELI. protein. protein. (HSA) ANSWER 38 OF 42 D AAE30916 Protein AAE30917 Protein - uilndoloumui - uilndolbounmui ***albumin*** - uilndolbounmmi 2003-018534 [01] Val8- ***GLP*** ANSWER 36 OF 42 ANSWER 37 OF 42 WO 2001-US43165 US 2000-251954P WO 2001-US43165 US 2000-251954P WO 2001-US43165 US 2000-251954P ***fusion*** ***fusion*** WO 2002046227 OD STN ACCESSION NUMBER: English English Patent Patent (ELIL) IN PA PI PI AI DT LA OS IN
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AlOX Other Drugs Used in Diabetes; AGA Antiobesity Preparations, Excluding Dietetics AGGA Antiobesity Preparations, Excl. Diet Products; AlOX Other Duegu Used in Diabetes Preclinical
CHANGE DATE: Oct 26, 2004
GENERIC NAME: Albumin/glucagon-like peptide-1
SYNONYM: ***Albumin/GLP-1; Albumin/glucagon-like peptide-1***
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TRADE NAME: Albugon(TM)
MOLECOLAR FORMULA:Unspecified
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lowers blood glucose, under development by Human Genome Sciences (HGS) for the treatment of diabetes and obesity (Direct communication, HGS, 6 May 2003). Pharmaprojects. PJB Publications Ltd., Richmond, Surrey, UK Albugon is a recombinant human ***glucagon*** - ***like*** peptide-1 and ***albumin*** ***fusion*** protein, which SY

Marketing

GlaxoSmithKline has exclusive worldwide rights for all therapeutic and prophylactic applications, in return for an upfront fee, milestone payments and royalties.

Preclinical

It is in late preclinical studies (Press release, HGS, 26 oct 2004). In normal mice with impaired glucose tolerance, dh/db mice and Zucker diabetic fatty rats, a single dose of Albugon restored near-normal glycaemic control over a 24hr period. In db/db mice, a strong correlation existed between Albugon plasma concentrations and response to oral glucose challenge. The intext molecule had a t1/2 of 11hr in mice and 3 days in monkeys (63rd Meet Am Diabetes Assoc (New Orleans), 2003, Abs 479). Updated by JB on 27/10/2004.

World: Preclinical DSTA

United States: Preclinical T2Z Recombinant, other A10B Antidiabetic

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ABA3
Anorectic-willow--GEN LOCUSID: 2641. Target Gene: glucagon
Synonyms: GCG; GLP; GLP2; GRPP; glucagon-like peptide 1; glucagon-like
peptide 2; glicentin-related peptide
ORGM BI-PT-R (Biological, peptide, recombinant)
RTE UN (Unknown)
RAIZ 20041027 RWIE ##Actual; Development Continuing
20041027 ##Actual; New Licensees GlaxoSmithKline
##Actual; No Devolopment Reported
##Actual; No Devolopment Reported

##Estimated; New Therapeutic Activity Anorectic/Antiobesity (ABA3) ##Estimated; Pharmacology Identified Glucagon-like peptide 20030506 20030506

##Actual; New Product in Pharmaprojects 1 agonist (GLP-1+) 20020503

NRAT I:Novelty Rating - All Preclinical
MRAT 3:Marker Rating - US\$ 2001-5000 million
SRAT 1:Speed Rating - Development not started
TRAT 0:Total Rating - Total Rating unavailable
PHCD GIP-1-AG; Glucagon-like peptide 1 agonist; Receptor, Hormonal,

Glucagonlike peptide 1 agonist; GLP-1 agonist; R-H-GLP-1-AG. R; R-H; R-H-GLP; R-H-GLP-1; R-H-GLP-1-AG; R-GLP; R-GLP-1; R-GLP-1-AG; R-1; R-1-AG; R-AG; H-AG; H-AG; H-AG; H-AG; H-AG; H-AG; H-AG; H-AG; H-AG; GLP; GLP-1; GLP-1-AG; GLP-AG; 1; 1-AG; R-H-GLP-AG; R-GLP-AG; H-GLP-AG; R-H-AG. PHCD

(CC)|Pharmacology (PHCD) |Status (DSTC) <u>~</u> д GLP-1-AG GLP-1-AG LN Therapy A10B T2Z

LCDAT 20041027: JB : Agreement with GlaxoSmithKline reported

<u>~</u>

GLP-1-AG

A8A3

STRUCTURE DIAGRAM IS NOT AVAILABLE

ANSWER 42 OF 42 PHARMAML COPYRIGHT 2005 MARKETLETTER on STN MC PS I AN

16740665 PHARWAML GSK licenses Human Genome Sci's Albugon Pharma Marketletter November 1, 2004

Newsletter

SINCE FILE ENTRY 162.45 => log h COST IN U.S. DOLLARS

FULL ESTIMATED COST

TOTAL SESSION 203.68

SESSION WILL BE HELD FOR 60 MINUTES STN INTERNATIONAL SESSION SUSPENDED AT 16:57:59 ON 01 JUL 2005